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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY  
UNITED STATES DEPARTMENT OF AGRICULTURE

Number 100

August, 1922.

GENERAL BUREAU NOTES

Dr. C. L. Marlatt, for many years Assistant Chief of the Bureau, has been advanced to Associate Chief of Bureau in Charge of Regulatory Work.

Dr. A. L. Quaintance, in Charge of Fruit Insect Investigations, has been advanced to Associate Chief of Bureau in Charge of Research Work.

G. S. Cotterell, a Carnegie scholar, has arrived in Washington and will spend about four months in the United States to familiarize himself with economic entomology in this country. He is Assistant Government Entomologist, Gold Coast Colony, West Africa.

Faustino Q. Otanes, of the Bureau of Agriculture, Philippine Islands, visited the Bureau and will spend several months in the United States, familiarizing himself with the work being carried out by the Bureau at its various field stations.

Prof. Alphonso Herrera, Director de Estudios Biologicos de Mejico, visited the Bureau at different times during the latter part of August. Professor Herrera has been investigating the research work of the Government, but has been especially interested in entomology.

F. X. Williams, an entomologist of the Hawaiian Sugar Planters' Experiment Station, spent ten days in Washington on his way to northern South America, where he will search for parasites of the sugar-cane wireworm in Hawaii.

Harry Hargreaves, Government Entomologist of the British Protectorate of Uganda, Central Africa, spent several days in Washington visiting the Bureau and acquainting himself with its work.

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SOUTHERN FIELD CROP INSECT INVESTIGATIONS

J. L. Webb, Entomologist Acting in Charge

Preliminary tests of the efficiency of the aeroplane in distributing calcium arsenate dust upon cotton fields for control of the boll weevil were conducted during the latter part of the month at Scott, Miss., under the direction of B. R. Coad. Mr. Coad reports a remarkable evenness of distribution of the poison by this method.

The following appointments have been made to the boll weevil field force: William L. Bowes, effective August 19; Richard A. Tate, effective August 21. The following resigned from the same force: W. D. Reid, J. E. Humphries, Elmer E. Holley, A. L. Monroe, and John R. Cole. The following temporary appointments



were extended: A. J. Chapman, from September 10 to December 9; R. L. Hester from September 5 to December 4. V. V. Williams was reinstated effective September 1.

The temporary appointment of L. P. O'Dowd of the sugar-cane insect force has been extended from September 12 to December 11.

The temporary appointment of Dr. Carroll G. Bull, engaged in investigations of malaria mosquitoes, has been extended from September 16 to October 15. J. A. Welch of the same force resigned August 31.

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#### FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Entomologist in Charge

O. I. Snapp reports that after-harvest jarring in commercial peach orchards for the plum curculio gives less than an average of one curculio per tree. Last year this same work gave an average of five curculios per tree.

Second-generation plum curculios began to issue in the insectary at Fort Valley, Ga., on July 23, but were appearing in orchards a few days earlier. On August 17 third-generation eggs of the curculio were taken in peach. This is thought to be the first record of third-generation eggs of this insect.

A number of specimens of Conotrachelus anaglypticus Say have been reared from peaches this season. There are indications that a small percentage of "wormy" peaches in Georgia is due to this species.

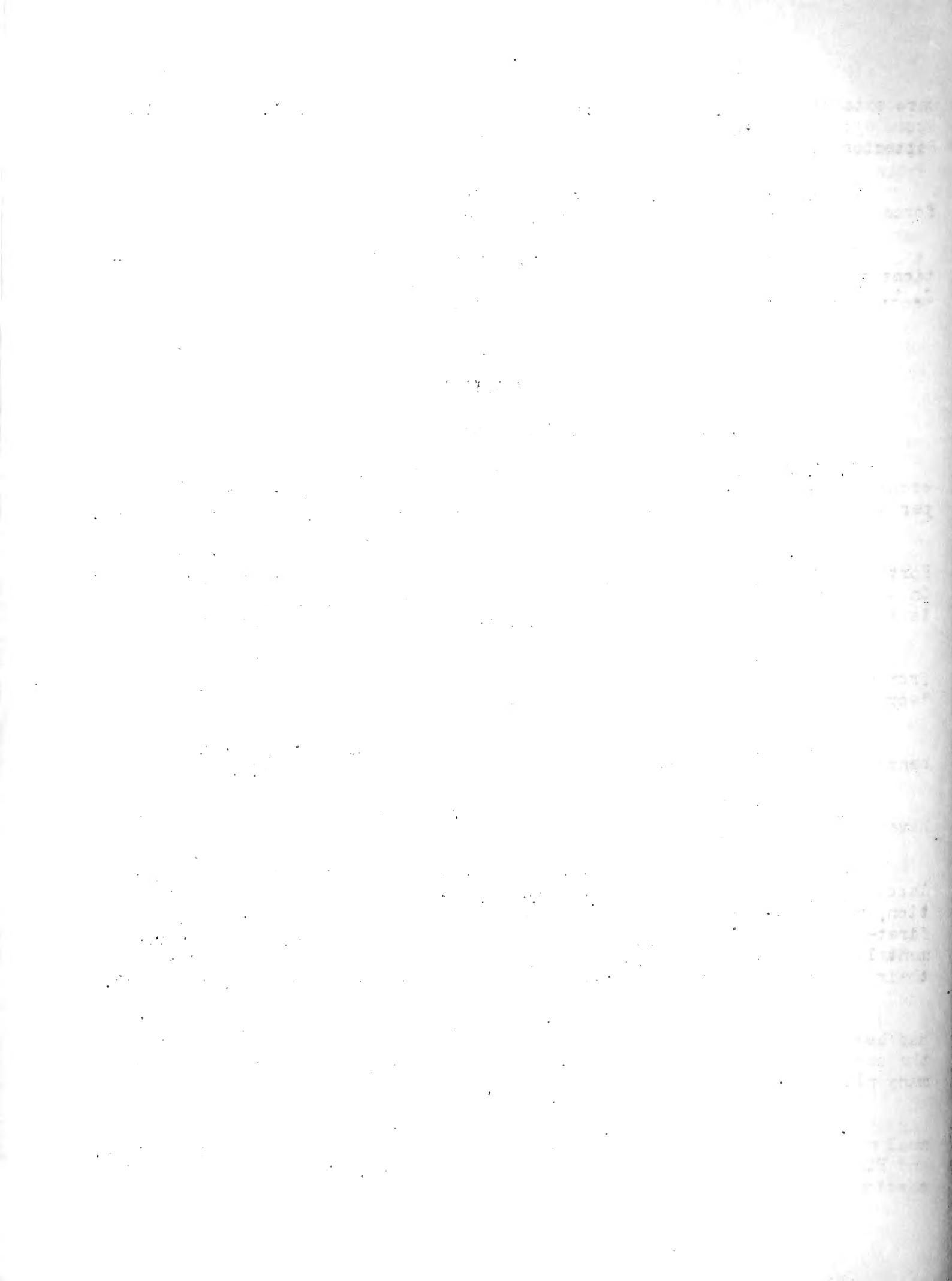
It is estimated that from 300,000 to 400,000 pounds of para-dichlorobenzene will be used against the peach borer in Georgia this fall.

C. H. Hadley reports from Riverton, N. J., that a number of visitors have called at the laboratory during the Japanese beetle season.

On August 8 a large number of members of the New Jersey Nurserymen's Association, together with visitors from the Pennsylvania Nurserymen's Association, visited the Japanese Beetle Laboratory for the purpose of obtaining first-hand information about the beetle situation and observing the experimental work under way. Members of the Pennsylvania Horticultural Society on their annual automobile tour also visited the laboratory earlier in the month.

According to scouting which has been carried on so far this season there has been a considerable natural spread of the Japanese beetle. The height of the beetle season is now passed, but beetles are still quite evident and in many places are in considerable abundance.

E. J. Newcomer and W. D. Whitcomb were in attendance at the fifth annual meeting of the Northwestern Association of Horticulturists, Entomologists, and Plant Pathologists which convened at Yakima, Wash., July 24-26. Several sessions were devoted to the reading of papers and to discussions. Field trips



were made to commercial orchards, potato fields, cold-storage and packing plants, and to the experimental orchard and laboratory of the Bureau of Entomology.

Bennet A. Porter of the Wallingford, Conn., station attended the summer meetings of the American Association of Entomologists, traveling in the auto with Messrs. Walden, Zappe, and Garman of the Connecticut Agricultural Experiment Station, New Haven, Conn. The meetings included visits to the experiment station at Geneva, and to the Department of Entomology at Cornell University, and trips through the apple belt of western New York State.

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LIBRARY

Mabel Colcord, Librarian

New Books

Bartsch, Paul. A monograph of the American shipworms. Washington Government Printing Office, 1922. 51 p., 37 pl. (Smithsonian Institution, U. S. National Museum Bul. 122.)

Beeson, C. F. C. The beehole borer of teak. A preliminary note on the ecology and economic status of Dryomyzus ceramicus Walk. in Burma. (Lepidoptera, Cossidae.) Calcutta, Superintendent of Government Printing, India, 1921. 105 p., 5 pl., fold. tab. (Indian Forest Records, v. 8, pt. 3.)

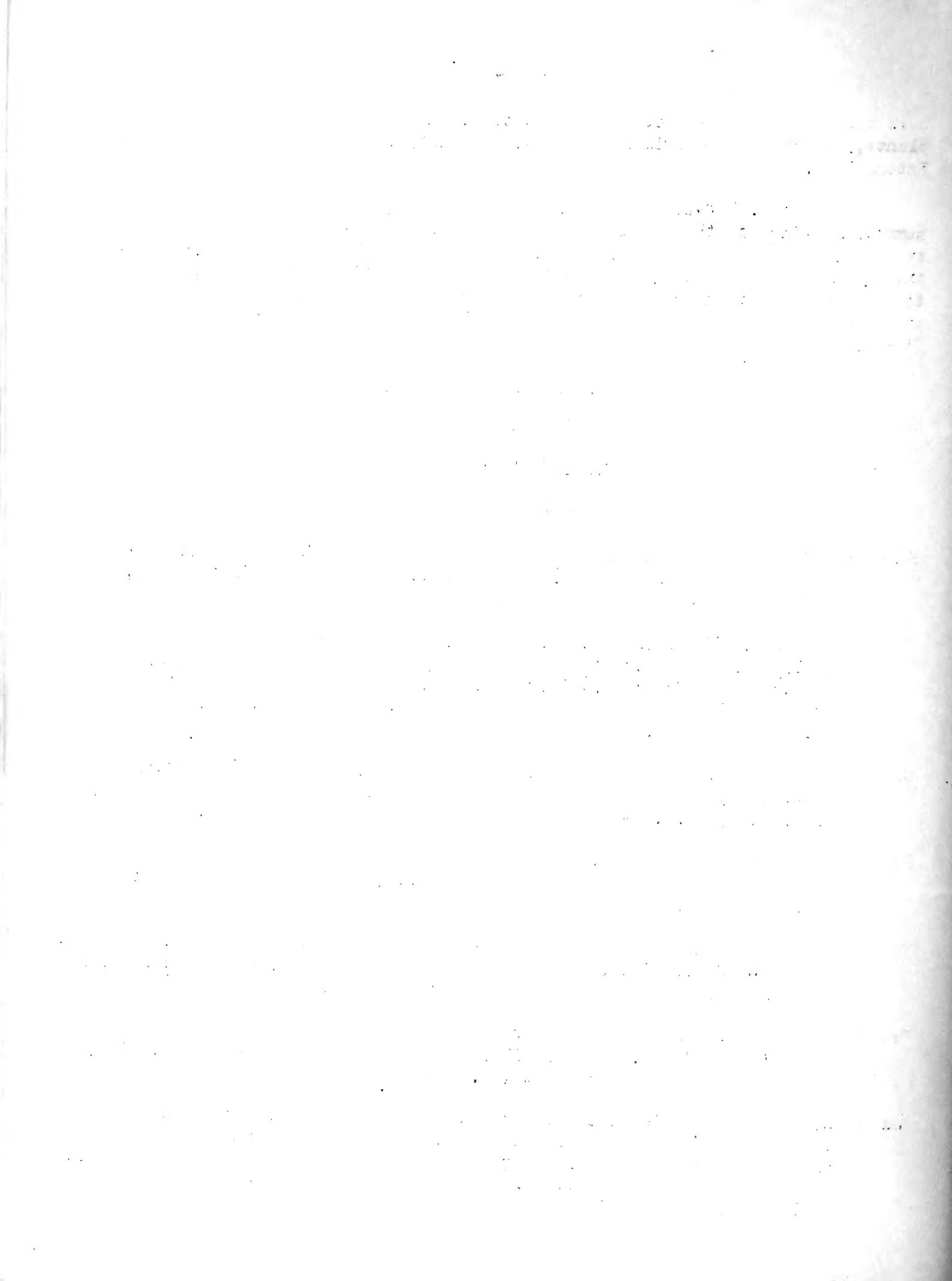
Corbett, G. H., and Mohamed, Yusope. Preliminary notes on the "Kadondong" beetle, Podentia 14-punctata, Linn. Agr. Bul. Federated Malay States, v. 9, no. 3, p. 192-200, plate. July, Aug., and Sept., 1921.

Fernald, H. T., and Bourne, A. D. Injury to foliage by arsenical sprays. I. The lead arsenates. Amherst, Mass., April, 1922. 19 p., illus. (Mass. Agr. Expt. Sta. Bul. 207.)

Fite, A. B. Six years of life history studies on the codling moth. Las Cruces, N. M., Las Cruces Citizen, June, 1921. 183 p., illus. (New Mexico Coll. Agr. and Mechan. Arts. Agr. Expt. Station Bul. 127, Technical.)

Frisch, Karl. Über den geruchssinn der biene und seine blutenbiologische bedeitung, (Zool. Jahrb. Abt. f. allg. Zool., Bd. 37, hft. 1-2, Jena, 1919, 238 p. Literatur - verzeichnis, p. 200-225.)

Garrison, F. H. An introduction to the history of medicine, with medical chronology, suggestions for study and bibliographic data. Philadelphia and London, W. B. Saunders Company, 1921. Ed. 3, rev. and enl. 942 p., illus. (This is in the Library of Congress; seems to be an excellent small reference book.)



Hauser, Gustav. Die Domaster-Coptolabrus-gruppe der gattung *Carabus*. Zoologische Jahrbücher. Abt. f. Syst., Ed. 45, hft. 1-4. Jena, 1921. 394 p., 11 pl.

Haviland, M. D. On the post-embryonic development of certain chalcids, hyper-parasites of aphides, with remarks on the bionomics of hymenopterous parasites in general. Quar. Jour. Micros. Sci. London, new ser. no. 262 (v. 66, pt. 1), p. 321-338, illus. June, 1922. Bibliography, p. 337-338.

Herrera, Moises. Breve monografia del *Megasoma elephas* Gemm. Mexico, Imp. de la Dirección de Estudios Biológicos, 1922. 12 p., 8 figs., 4 pl., map.

Koning, M. de. Boschbescherming de leer der ziekten en beschadigingen der houtgewassen ... Zutphen, Uitgave W. J. Thieme & Cie (1922). 567 p., illus. Gelede dieren. Insekten, p. 238-504.

Navel, H. C. Les principaux ennemis de cacaoyer aux Iles de San Thome et de Principe, Paris, Emile Larose, 1921. 135 p., 28, A-D col. pl.

Phisalix-Picot, Marie. Animaux venimeux et venins... Paris, Masson & Cie, 1922. 2 v., illus., pls. (part col.), tables. "Bibliographie" at end of each chapter.

Ramachandra Rao, Rao Sahib y. The pests of the date palm in the 'Iraq... with supplementary note by A. Dutt. Basrah, Printed at the Times Press, 1922. 21 p., illus. (Mesopotamia Dept. Agr. Memoir 6.)

Stegman, F. P. Die bekämpfung der dasselfliege... Berlin, 1920. 23 p.

Wolff, Max, and Krausse, Anton. Die forstlichen lepidopteren. Systematische und biologische übersicht. Jena, Verlag von Gustav Fischer, 1922. 337 p. Zoologischen-literatur-anhang, p. 313-317.

